

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
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Jens Chr Jensenius et al.FILING DATE  
April 2, 1998GROUP  
1651

(37 CFR 1.98(b))

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DS	AA	5 2 7 0 1 9 9	12/14/93	Ezekowitz			

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

DS	AB	Garred, Peter, et al., "Increased frequency of homozygosity of abnormal mannan-binding-protein alleles in patients with suspected immunodeficiency", <u>The Lancet</u> , Vol. 346, No. 8980, pp. 941-943, Oct. 1995
	AC	Ikeda, Ken, et al., "Serum Lectin with Known Structure Activates Complement through the Classical Pathway", <u>The Journal of Biological Chemistry</u> , Vol. 262, No. 16, pp. 7451-7454, June 1987
	AD	Ji, Yue-Hua, et al., "Activation of the C4 and C2 Components of Complement by a Proteinase in Serum Bactericidal Factor, Ra Reactive Factor", <u>The Journal of Immunology</u> , Vol. 150, No. 2, pp. 571-578, Jan. 1993
	AE	Matsushita, Misao, et al., "Activation of the Classical Complement Pathway by Mannose-binding Protein in Assoc. with a Novel C1s-like Serine Protease, <u>J. Exp. Med.</u> , Vol. 176, pp. 1497-1502, Dec. 1992
	AF	Nielsen, S.L., et al., "The level of the serum opsonin, mannan-binding protein in HIV-1 antibody-positive patients", <u>Clinical and Experimental Immunology</u> , Vol. 100, No. 2, pp. 219-222, May 1995
abst only	AG	Sato, Tetsuo, et al., "Molecular characterization of a novel serine protease involved in activation of the Complement system by mannanose-binding protein", <u>Int'l Immunology</u> , Vol. 6, No. 4, pp. 665-669, January 1994
	AH	Sumiya, Michiko, et al., "Molecular basis of opsonic defect in immunodeficient children", <u>The Lancet</u> , Vol. 337, pp. 1569-1570, June 1991
V	AI	Summerfield, J.A., et al., "Mannose binding protein gene mutations associated with unusual and severe infections in adults", <u>The Lancet</u> , Vol. 345, No. 8954, pp. 886-889, April 1995
duplicate	AJ	<del>Thiel, Steffen, et al., "A second serine protease associated with mannan-binding lectin that activates complement", <u>NATURE</u>, pp. 1-10, 1997</del>
DS	AK	Turner, Malcolm W., "Mannose-binding lectin: the pluripotent molecule of the innate immune system", <u>Immunology Today</u> , Vol. 17, No. 11, pp. 532-540, November 1996

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David A. Sweeney

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BA	Kawasaki, T. et al., "Isolation and Characterization of a Mannan-Binding Protein From Rabbit Liver", <u>Biochem. Biophys. Res. Commun.</u> , 81:1018-1024 (1978)
BB	Kawasaki, N. et al., "A Serum Lectin (Mannan-Binding Protein) Has Complement-Dependent Bactericidal Activity", <u>J. Biochem.</u> , 106:483-489 (1989)
BC	Kuhlman, Marcella et al., "The Human Mannose-Binding Protein Functions as an Opsonin", <u>J. Exp. Med.</u> , 169:1733-1745 (1989)
BD	Lipscome, R.J. et al., "High frequencies in African and non-African populations of independent mutations in the mannose-binding protein gene", <u>Hum. Mol. Genet.</u> , 1:709-715 (1992)
BE	Madsen, Hans O. et al., "A new frequent allele is the missing link in the structural polymorphism of the human mannan-binding protein", <u>Immunogenetics</u> , 40:37-44 (1994)
BF	Super, M. et al., "Association of Low Levels of Mannan-Binding Protein with a Common Defect of Opsonisation" <u>Lancet</u> , ii:1236-1239 (1989)
BG	Garred, P. et al., "Susceptibility to HIV infection and progression of AIDS in relation to variant alleles of mannose-binding lectin", <u>Lancet</u> , 349:236-240 (1997)
BH	Malhotra, Rajneesh et al., "Glycosylation changes of IgG associated with rheumatoid arthritis can activate complement via the mannose-binding protein", <u>Nature Med.</u> , 1:237-243 (1995)
BI	Davies, Eric J., "Mannose-binding Protein Gene Polymorphism in Systemic Lupus Erythematosus", <u>Arthritis Rheum.</u> , 38:110-114 (1995)
BJ	Jensenius, J.C. et al., "Mannan-binding lectin (MBL): From investigations on fish and chickens to substitutions therapy in an infant with severe infections", <u>Immunology</u> , 86:Suppl. 1, 100 abstract (1995)
BK	Garred, P. et al., "Diallelic polymorphism may explain variations of the blood concentration of mannan- binding protein in eskimos, but not in black africans", <u>Eur. J. Immuno.</u> , 19:403-412 (1992)
BL	Thiel, S. et al., "Identification of a new mannan-binding protein associated serine protease (MASP-2), <u>Immunology</u> , 86:Suppl. 1, 101 (1995)
BM	Baatrup, G. et al., "Demonstration in Human Plasma of a Lectin Activity Analogous to that of Bovine Conglu- tinin", <u>Scand. J. Immunol.</u> , 26:355-361 (1987)
BN	Jensenius, J.C. et al., "EGGS: Conveniently Packaged Antibodies. Methods for purification of yolk IgG", <u>Immunol. Methods</u> , 46:63-66 (1981)

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David A. Saunders

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CA	Endo, Y. et al., "Exon structure of the gene encoding the human mannose-binding protein-associated serine protease light chain: comparison with complement C1r and C1s genes", <u>Int. Immunol.</u> , 9:1355-1358 (1996)
CB	Tan, Suet et al., "Improvements on the purification of mannan-binding lectin and demonstration of its CA <sup>2+</sup> independent association with a C1s-like serine protease", <u>Biochem. J.</u> , 319:329-332 (1996)
CC	Barton, Geoffrey J., "Protein Multiple Sequence Alignment and Flexible Pattern Matching", <u>Methods Enzymol.</u> , 183:403-428 (1990)
CD	Takada, Fumio et al., "A new member of the C1s family of complement proteins found in a bactericidal factor, Ra-reactive factor, in human serum", <u>Biochem. Biophys. Res. Comm.</u> , 196:1003-1009 (1993)
CE	Journet, Agnes et al., "Cloning and sequencing of full-length cDNA encoding the precursor of human complement component C1r", <u>Biochem. J.</u> , 240:783-787 (1986)
CF	Leytus, Steven P. et al., "Nucleotide Sequence of the cDNA Coding for Human Complement C1r", <u>Biochemistry</u> , 25:4855-4863 (1986)
CG	MacKinnon, Charlotte M. et al., "Molecular cloning of cDNA for human complement component C1s. The complete amino acid sequence", <u>Eur. J. Biochem.</u> , 169:547-553 (1987)
CH	Tosi, Mario, "Complete cDNA Sequence of Human Complement C1s and Close Physical Linkage of the Homologous Genes C1s and C1r", <u>Biochemistry</u> , 26:8516-8524 (1987)
CI	Law, S.K.A. et al., <u>Complement 2.ed.</u> (Ed. Male D.) (In Focus, IRL Press, Oxford 1996), pp 1, 4-5, 8-9, 12-13, 16-17, 20-21, 24-25, 28-29, 32-33, 36-37, 40-41, 44-45, 48-49, 52-53, 56-57, 60-61, 64-65, 68-69, 72-73, 76-77, 80-81, 84-85.
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